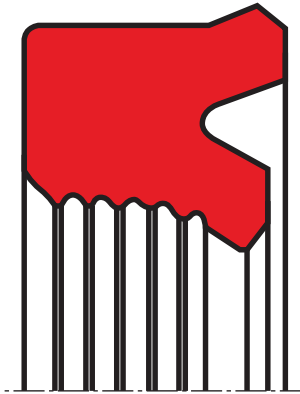


rod seal S17-SB

seal spec



description

the rod seal S17-SB with asymmetrical profile, inner lip set back, grooved contact surface on the inside diameter as well as press fit at the outside diameter.

application



category of profile

machined or molded/standard/trade product.

single acting

the S17-SB seal is designed for use as a rod seal.

area of application: hydraulics

earth moving equipment, agricultural machinery, injection moulding machines, industrial vehicles, cranes, loading platforms.

advantages

single-acting rod seal for standardised housings, amongst others, according to ISO 5597

- very good static and dynamic tightness.
- low friction, smooth movement even at low running speeds, dynamic deformation value.
- use as an individual seal or secondary seal in sealing systems possible.

operating parameters & material

material	temperature	max. surface speed	max. pressure ¹
s-mart PU (94 Shore A)	-30 °C ... +110 °C	0,6 m/s	320 bar (32 MPa)
s-mart PU (92 Shore A)	-30 °C ... +100 °C	0,6 m/s	320 bar (32 MPa)

the stated operation conditions represent general indications. it is recommended not to use all maximum values simultaneously.

surface speed limits apply only to the presence of adequate lubrication film.

¹ pressure ratings are dependent on the size of the extrusion gap.

surface quality

surface roughness	Rtmax (µm)	Ra (µm)
sliding surface	≤2,5	≤0,05-0,3
bottom of groove	≤6,3	≤1,6
groove face	≤15	≤3

**gap dimension**

profile ($\varnothing D - \varnothing d$)/2 mm	max. permissible gap dimension		
	16	26	32
4,0 ... 5,0	0,50	0,40	0,35
>5,0 ... 7,5	0,55	0,45	0,40

important note:

the above data are maximum value and can't be used at the same time. e.g. the maximum operating speed depend on material type, pressure, temperature and gap value. temperature range also dependent on medium.

tolerance recommendation

seal housing tolerances
 $\varnothing d$ (4 ... 260)

 $\varnothing d$

f8

 $\varnothing D$

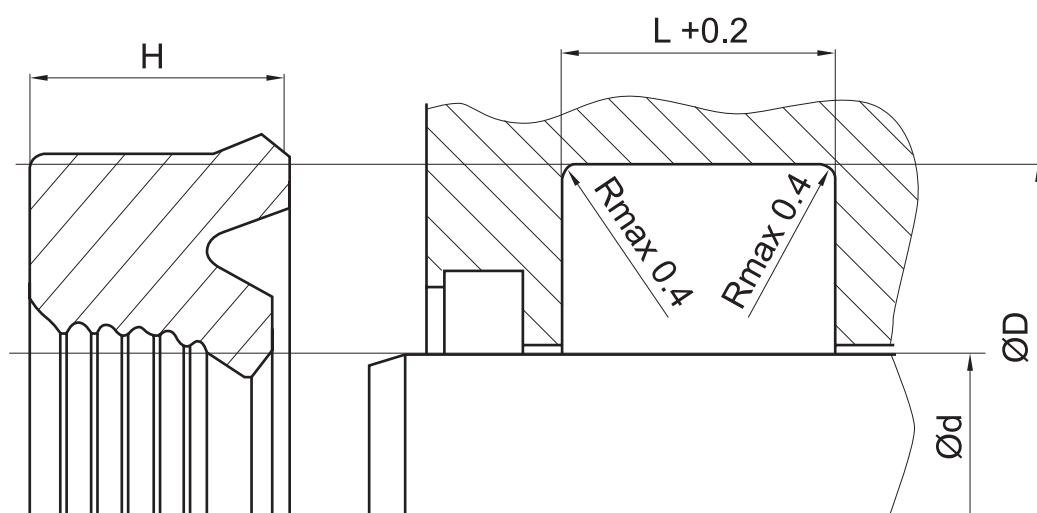
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fitting & installation

Careful fitting is a prerequisite for the correct function of the seal.

seal & housing recommendations

please note that we are able to produce those profiles to your specific need or any non standard housing. for detail measurements, please see seal-mart catalog...



don't hesitate to contact our technical department for further information or for special requirements (temperature, speed etc.), so that suitable materials and/or designs can be recommended.